Pest Management Regulatory Agency
Agence de réglementation de la lutte antiparasitaire

Proposed Maximum Residue Limit

PMRL2007-01

Pyriproxyfen

(publié aussi en français)

20 March 2007

This document is published by the Alternative Strategies and Regulatory Affairs Division, Pest Management Regulatory Agency. For further information, please contact:

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Health Canada Santé Canada

Canada

ISBN: 978-0-662-45554-7 (978-0-662-45555-4)
Catalogue number: H113-24/2007-1E (H113-24/2007-1E-PDF)

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Health Canada's Pest Management Regulatory Agency (PMRA), under the authority of the *Pest Control Products Act* (PCPA), has granted registration (major new use) to technical grade pyriproxyfen and the associated end-use product Distance Insect Growth Regulator for use in Canada to control whiteflies on greenhouse cucumbers, peppers and tomatoes. The specific uses that were approved in Canada are detailed on the Distance Insect Growth Regulator label (PCPA Reg. No. 28414).

The evaluation of these pyriproxyfen applications indicated that the end-use product has merit and value and that the human health and environmental risks associated with its proposed uses are acceptable. Details on these registrations can be found in Proposed Registration Decision Document PRDD2006-04, *Pyriproxyfen*.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not pose an unacceptable health risk. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Currently, MRLs are legally established under the Food and Drug Regulations (FDR) after consultation through the *Canada Gazette*. Amendments to the *Food and Drugs Act* (FDA), via Bill C-28, anticipated to come into force in 2007, will allow pesticide MRLs to be legally established under the PCPA without their having to be adopted by regulation under the FDA, thereby resulting in a more efficient means of establishing, revising and revoking pesticide MRLs.

Consultation on the proposed MRLs for pyriproxyfen has already been conducted through PRDD2006-04 (specific information regarding the proposed MRLs can be found in Section 4.1 and Appendix II, Table 1). As stated in the subsequent Registration Decision document RD2007-03, *Pyriproxyfen*, no comments were received in response to this consultation.

The proposed MRLs for pyriproxyfen in Canada in or on food are as follows:

Table 1 Proposed Maximum Residue Limits for Pyriproxyfen

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodities
Pyriproxyfen	2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine	0.80	Bell peppers
		0.25	Tomatoes
		0.02	Cucumbers

A complete list of all MRLs established in Canada can be found in Table II, Division 15 of the FDR. Once the amendments to the FDA via Bill C-28 are in force, the list of legally established Canadian MRLs will be available on the PMRA's MRL webpage, which will be updated to include the MRLs listed in this document.

International Situation and Trade Implications

MRLs may vary from one country to another for a number of reasons, including differences in pesticide use patterns and the locations of the field crop trials used to generate residue chemistry data. Table 2 identifies differences among MRLs in Canada, tolerances in the United States and Codex[1] MRLs. The proposed MRLs in Canada differ from the corresponding tolerances in the United States as listed in 40 CFR 180 (searchable by pesticide). Currently, there are no Codex MRLs for pyriproxyfen on fruiting vegetables or cucurbits (Codex MRLs searchable by pesticide or commodity).

Table 2 Comparison of Canadian MRLs, American Tolerances and Codex MRLs

Canada		United States		Codex
Food Commodities	**MRL (ppm)**	**Food Commodities**	**Tolerance (ppm)**	
Bell peppers*	0.80	Vegetable, fruiting, group 8	0.20	No Codex MRLs have been established for pyriproxyfen in or on cucurbits or fruiting vegetables.
Tomatoes*	0.25	Vegetable, fruiting, group 8	0.20	
Cucumbers**	0.02	Vegetable, cucurbit, group 9	0.10	

* Covered under the fruiting vegetable crop group tolerance in the United States.

** Covered under the cucurbit crop group tolerance in the United States.

1 Codex is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.